## M Table CT3. Total End-Use Sector Energy Consumption Estimates, Selected Years, 1960-2021, Michigan

	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum							1	Biomass		, I		1			
Year			Distillate Fuel Oil <sup>b</sup>	HGL °	Jet Fuel <sup>d</sup>	Motor Gasoline <sup>e</sup> Thousand Barrel	Residual Fuel Oil s	Other <sup>f</sup>	Total	Hydro- electric Power <sup>g,h</sup> Million Kilowatt- hours	Wood and Waste <sup>h,i</sup>	Losses and Co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Electricity <sup> </sup> Million Kilowatt- hours	End Use <sup>h,m</sup>	Electrical System Energy Losses <sup>n</sup>	Total <sup>h,m</sup>
					ſ													
60	15,631	365	30,158	2,827	3,369	65,782	11,477	14,867	128,481	212					27,599			
70	13,942	745	37,176	6,202	7,365	96,831	5,543	16,357	169,473	123					55,292			
80	8,960	839	26,864	6,736	6,646	97,025	3,669	15,192	156,130	117					69,681			
90	4,987	794	24,016	14,901	10,057	99,913	1,579	12,598	163,063	23					82,367			
00	4,018	828	30,450	16,308	7,214	118,160	675	14,343	187,148	27					104,772			
05	3,170	783	29,943	23,157	3,431	119,584	1,110	12,545	189,770	29					110,445			
06	3,141 3,095	694 674	29,627 29,076	15,036	4,124 5,270	118,106 116,059	970 1,255	11,377	179,240	32 26					108,018			
07	3,095			16,217	4,641			11,804	179,681						109,297			
08 09	2,095	686 652	26,426 25,366	12,506 11,829	4,641	111,410 109,703	1,256 488	9,739 9,605	165,978 161,260	26 25					105,781 98,121			
10	2,095	634	25,300 26,187	10,936	4,270	109,703	400 476	9,805 8,309	162,925	25					103,649			
11	2,799	664	26,187	10,936	8,563	105,871	644	7,639	159,997	20					105,054			
12	2,799	609	25,453	9,221	8,656	105,052	461	7,992	156,834	29					104,818			
13	2,662	704	28,368	12,190	8,751	109,078	378	9,213	167,978	29					103,038			
14	2,543	750	28,781	12,823	8,760	109,118	258	9,831	169,571	29					103,314			
15	2,343	679	29,762	10,949	9,796	111,408	235	10,182	172,331	30					103,314			
16	1,530	648	29,566	11,635	10,013	113,495	484	10,710	175,902	26					104,468			
17	1,974	657	27,451	11,648	10,289	112,289	696	R 10,635	R 173,002	29					101,899			
18	2,039	711	31,070	13,549	10,049	112,532	815	R 9,892	R 177,906	10					104,869			
19	1,918	722	29,934	13,968	R_10,017	110,975	912	R 10,389	R 176,195	10					101,249			
20	1,226	647	27,026	12,744	R 5,405	94,915	652	R 10,337	R 151,079	9					97,012			
21	1,753	647	27,617	12,417	6,833	103,742	833	10,878	162,320	11					99,813			
									Trillion	Btu								
60	396.8	377.6	175.7	10.8	18.2	345.6	72.2	88.2	710.6	2.3	37.3	NA	NA	NA	94.2	1,618.8	232.9	1
70	341.8	756.0	216.6	23.7	41.0	508.7	34.8	97.2	921.9	1.3	36.4	NA	NA	NA	188.7	2,246.1	456.4	
80	226.9	855.2	156.5	25.0	37.1	509.7	23.1	90.2	841.6	1.2	90.6	NA	NA	NA	237.8	2,253.3	571.2	
90	124.5	829.7	139.9	54.5	56.6	524.8	9.9	76.8	862.6	0.2	71.2	0.0	0.6	0.2	281.0	2,156.3	710.3	
00	105.1	858.4	177.2	61.4	40.9	614.5	4.2	88.7	986.9	0.3	68.9	0.0	1.2	0.2	357.5	2,367.5	857.5	
05	81.2	794.9	174.2	86.4	19.5	620.9	7.0	78.6	986.5	0.3	69.9	2.7	2.2	0.3	376.8	2,315.2	900.0	
06	80.2	706.6	171.9	55.9	23.4	612.4	6.1	71.1	940.7	0.3	64.9	4.5	2.6	0.3	368.6	2,169.6	877.0	
07	79.8	689.4	168.2	60.4	29.9	596.8	7.9	72.9	936.1	0.3	68.2	10.5	3.0	0.4	372.9	2,161.8	861.0	
08	87.6	702.7	152.7	47.6	26.3	568.9	7.9	59.9	863.3	0.3	72.1	12.7	3.5	0.4	360.9	2,104.4	811.0	
09 10	53.4 71.7	665.7 643.9	146.5 151.2	44.9 42.0	24.2 48.7	558.4 549.4	3.1 3.0	59.5 51.5	836.7 845.8	0.2 0.3	58.5 67.5	11.8 15.1	4.3 4.9	0.4 0.5	334.8 353.7	1,965.9 2,003.3	724.5 776.8	
11	70.8	672.8	151.2	42.0	40.7	536.0	4.1	47.2	830.3	0.3	78.1	15.0	4.9	0.5	358.4	2,003.3	776.8	
12	61.9	619.7	152.2	35.4	49.9	531.8	2.9	47.2	815.3	0.3	76.1	15.0	5.1	R 0.7	357.6	1,950.4	764.5	
12	69.3	718.7	163.5	46.8	49.1	551.8	2.9	49.3 56.0	870.3	0.2	81.1	14.4	5.2	0.8	351.6	2,112.0	764.5	
14	64.3	763.8	165.9	40.0	49.6	552.0	2.4	59.9	878.3	0.3	81.2	14.9	5.2	0.8	352.5	2,112.0	753.5	R
14 15	62.3	703.0	171.5	49.3	49.7	563.4	1.6	62.4	896.3	0.3	98.3	15.0	5.2	0.8	349.7	2,161.5	R 698.0	R
16	39.0	675.2	170.2	42.1	56.8	573.7	3.0	66.3	914.7	0.3	90.6	15.2	5.2	1.0	356.4	2,097.7	R 708.7	R
17	53.5	687.3	158.0	44.7	58.3	567.4	4.4	66.0	898.9	0.2	90.8 85.2	18.2	5.2	1.0	347.7	2,097.7	R 701.1	R
18	53.7	744.9	178.9	52.0	57.0	568.7	5.1	61.6	923.4	0.3	92.5	19.1	5.2	1.2	357.8	2,097.2	R 714.2	R
19	50.0	763.4	172.4	53.7	R 56.8	560.6	5.7	64.5	R 913.7	0.1	89.3	18.1	5.2	1.2	345.5	R 2,186.8	R 694.4	R
		685.8	155.6	49.0	R 30.6	479.5	4.1	R 64.3	R 783.0	0.1	R 79.2	16.3	5.2	1.9	331.0	R 1,933.9	R 678.4	R
20	31.5																	

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

<sup>h</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>i</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>j</sup> Losses and co-products from the production of biodiesel and fuel ethanol.

<sup>k</sup> Solar thermal and photovoltaic energy.

<sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors.

<sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. - – = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/